



OMESOL

A Potential Hub To Deliver Dynamic Professionals

OCTAGON
MANAGEMENT
& ENGINEERING
SOLUTIONS

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Process Design Fundamentals

Objectives

- Provide adequate knowledge of roles & responsibilities of Process Design Engineer.
- Enable the candidate to apply the acquired knowledge of process equipment designing along with relevant industry standards.
- Develop a practical understanding of design & sizing along with calculations.
- Help candidates to sizes the equipment according to industrial requirement and to design different process equipment used in various industrial segments like Oil & Gas industry, power plant industry, pharmaceutical, chemical, fertilizer, food processing industries (FMCG), etc.

Who will benefit

- Professionals
- Recent graduates
- Students

Course Detail

MODULE 1

- Roles & Responsibilities Of Process Design Engineer
- Different Phases Of Project Execution
- Overview Of Upstream Oil And Gas Industry
- Process Safety And HAZOP
- Fluid Phase Behavior
- Process Simulations
- PFD, H&MB AND P&ID
- Line Sizing And Hydraulics
- Equipment Design And Sizing & Pump Hydraulics
- Pressure Relief Valve Sizing

Assessment & Assignment

MODULE 2

- Introduction To Process Equipment



- Heat Exchangers
- Design Of Shell & Tube Heat Exchangers
- Design Of Air Cooled Heat Exchangers
- Distillation Column Design
- Fundamentals And Design Of Dryers
- Introduction To Power Plant Design
- Design & Selection Of Chemical Reactors
- Fundamentals And Selection Of Compressors
- Fundamentals And Selection Of Water Treatment Plants
- Fundamental Of Boiler And Accessories
- Design And Selection Of Cooling Towers

Assessment & Assignment

MODULE 3

- Overview And Scope Of Piping Design
- Piping Fundamentals
- Piping System Components
- Piping System / Standard Piping Details
- Valves, Flanges & Gaskets
- Process Plant Layout & Engineering
- Process Plant Equipment
- Equipment Layout
- Pipe Routing & Drafting
- Introduction To ASME Codes & Standards
- Engineering Procurement And Construction

Assessment & Assignment

Course Duration

30 days / Total 60 hrs

Training Mode

On-line

Fees

1200 USD

Available Payment Methods:

VISA, MASTERCARD, Paypal, Discover, American Express, Diners Club International, JCB

On-line Fee Submission:

<http://www.omesol.com/submit-fee-online>

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